

Resintech SIR-900 Regeneration

ResinTech SIR-900 is a high-capacity synthetic absorbent media that is highly selective for lead, arsenic, and fluoride. ResinTech SIR-900 can be regenerated and used for many cycles when in service for arsenic and fluoride removal. Lead removal is not normally regenerable.

PROCEDURE FOR REGENERATING RESINTECH SIR-900

This procedure assumes a standard bed depth of four to five feet.

1. First backwash the bed at 8-9 gpm/sq.ft. for approximately 10 minutes. This should expand the bed approximately 50%. Be careful not to backwash the material out of the vessel.
2. Regenerate the bed with 2 to 4% NaOH. Upflow regeneration at 0.25 gpm/cu.ft. is preferred for best results. The caustic dose should be approximately 3 to 4 pounds per cubic foot and the contact time should be at least one hour.
3. Slow rinse one tank volume to displace the caustic.
4. Fast rinse with raw water that has been adjusted to a pH of approximately 2.5 downflow through the bed until the effluent water pH reaches 9.0 to 9.5.
5. Adjust the influent raw water to a pH of 4.0.
6. When the effluent water pH reaches 8.5 or less, it is safe to return to service.
7. During service, adjust the influent raw water to a pH of 5.5. A pH of 5.5 should be maintained throughout the remainder of the service cycle for optimum results.

